

Notice of Allowability

Application No.

09/989,819

Examiner

A Elamin

Applicant(s)

OGAMI ET AL.

Art Unit

2116

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 10/12/2004.
2. ☒ The allowed claim(s) is/are 1-12 and 14-20.
3. ☒ The drawings filed on 19 November 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. The application has been amended as follows:

3. **IN THE SPECIFICATION:**

Please replace the paragraph beginning at page 12, line 14 with the following:

The present invention is readily adaptable for use with numerous functional blocks that are programmably configurable to provide a variety of functions. Exemplary functional peripherals include timers, controllers, serial communications units, Cycle Redundancy Check (CRC) generators, Universal Asynchronous Receiver/transmitters (UARTS), amplifiers, programmable gain components, digital to analog converters, analog to digital converters, analog drivers, and various filters (e.g., high-, low-, and band-pass). In one exemplary implementation higher order user modules (e.g., modems, complex motor control, sensor devices, etc.) are created with combinations of functional blocks. Co-pending commonly-owned incorporated U.S. Patent Application Serial No. 10/033,027, filed October 2001, entitled "PROGRAMMABLE MICROCONTROLLER ARCHITECTURE," which is hereby incorporated by this reference, includes additional details on exemplary implementations of present invention integrated circuits (e.g., integrated circuit 10) and functional components (e.g., functional component 25).

Please replace the paragraph beginning at page 20, line 5 with the following:

In one embodiment of the present invention, boot file creation method 300 is implemented on a design tool (e.g., a computer implemented software design tool). Additional details on an exemplary implementation of a present invention design tool are set forth in co-pending commonly-owned United States Patent Application Serial No. 09/989,570, filed November 19, 2001, entitled "METHOD FOR FACILITATING MICROCONTROLLER PROGRAMMING", which is hereby incorporated by this reference.

Allowable Subject Matter

4. Claims 1-12, 14-20 are allowed.

REASONS FOR ALLOWANCE

5. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or suggest individually or in combination the following:

creating a boot template file comprising symbolic variable names that point to configuration registers within a programmable device, establishing an association between the variable symbolic register names and actual configuration register names, and substituting the symbolic variable names with actual configuration register names.

For these reasons claims 1, 12 and 15 are deemed to be allowable over the prior art of record, and claims 2-11, 14, 16-20 are allowable by dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A Elamin whose telephone number is (571) 272-3674. The examiner can normally be reached on MON-FRI 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

January 6, 2005


A. ELAMIN
PRIMARY EXAMINER

A Elamin
Primary Examiner
Art Unit 2116